

Water-Data Report 2008

402633074541301 Local number 190456- MW91

 Early Mesozoic basin aquifers
 Passaic Formation

Hunterdon County, NJ

LOCATION.--Lat 40°26'33.2", long 74°54'13.3" referenced to North American Datum of 1983, Delaware Township, Hunterdon County, NJ, Hydrologic Unit 02040105.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 37 ft. Upper casing diameter 6 in; top of first opening 12 ft, bottom of last opening 37 ft.

DATUM.--Land-surface datum is 200 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--Water years 2003, 2008.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 8. Agricultural Land Use Indicator.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the New Jersey Department of Environmental Protection.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Time	Depth to water level, feet below	Pump or flow rate, instantaneous	Turbidity white light, 90+/-30	Barometric pressure, 90+/-30	Dissolved oxygen, percent of saturation	pH, water, unfiltrd field, std units	Specific conductance, µS/cm	Temperature, water, deg C	Hardness, water, mg/L as CaCO3	Calcium water, mg/L
	LSD (72019)	(00059)	Flow gal/min	Flow period prior to sampling, minutes	Baro- metric pres- sure, mm Hg	Dissolved oxygen, mg/L	pH, water, unfiltrd field, std units	Specific conductance, µS/cm	Temperature, water, deg C	Hardness, water, mg/L as CaCO3	Calcium water, mg/L
Jul 09...	1255	11.10	.50	140	22	751	.6	5	6.7	169	13.0
											85
											22.6

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Magnesium, water, filtrd, mg/L	Potassium, water, filtrd, mg/L	Sodium, water, filtrd, mg/L	ANC, wat unf fixed end pt, mg/L as CaCO3	Alkalinity, wat unf inf tit lab, mg/L as CaCO3	Bicarbonate, wat flt infl tit titr., mg/L as CaCO3	Chloride, wat titr., mg/L	Fluoride, water, filtrd, mg/L	Silica, water, filtrd, mg/L as SiO2	Sulfate, water, filtrd, mg/L as (00945)	Residue water, filtrd, sum of constituents, mg/L	Residue water, evap. at 180degC, wat flt, mg/L	Ammonia + org-N, water, filtrd, mg/L as N
	(00925)	(00935)	(00930)	(90410)	(39086)	(00453)	(00940)	(00950)	(00955)	(70301)	(70300)	(00623)	
Jul 09...	6.99	.69	6.33	85	86	105	1.78	.13	14.5	9.23	E121	129	E.10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Nitrate + Ammonia water, filtrd, mg/L as N (00608)		Nitrite water, filtrd, mg/L as N (00631)	Nitrite water, filtrd, mg/L as N (00613)	Ortho- phos- phate, water, filtrd, mg/L as P (00671)	Organic carbon, water, filtrd, mg/L (00681)	Alum- inum, water, filtrd, μg/L (01106)	Anti- mony, water, filtrd, μg/L (01095)	Arsenic water, filtrd, μg/L (01000)	Barium, water, filtrd, μg/L (01005)	Beryll- ium, water, filtrd, μg/L (01010)	Boron, water, filtrd, μg/L (01020)	Cadmium water, filtrd, μg/L (01025)	Chrom- ium, water, filtrd, μg/L (01030)
Jul 09...	<.020	1.52	E.002	.043	.9	E.8	<.14	1.4	110	<.01	15	<.04	E.11	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Copper, water, filtrd, μg/L (01040)	Iron, water, filtrd, μg/L (01046)	Lead, water, filtrd, μg/L (01049)	Manganese, water, filtrd, μg/L (01056)	Mercury water, filtrd, μg/L (71890)	Nickel, water, filtrd, μg/L (01065)	Selenium, water, filtrd, μg/L (01145)	Silver, water, filtrd, μg/L (01075)	Thallium, water, filtrd, μg/L (01057)	Zinc, water, filtrd, μg/L (01090)	1-Naphthalen, water, filtrd, 0.7u GF (49295)	2,6-Diethylaniline, water, filtrd, 0.7u GF (82660)	2-Chloro- -2',6'- diethyl acetanilide water, filtrd, μg/L (61618)	
Jul 09...	E.62	157	<.08	11.8	<.010	.37	.11	<.1	<.04	1.9	<.04	<.006	<.010	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	2-Ethyl -6-methyl CIAT, water, filtrd, μg/L (04040)	3,4-Di- chloro- aniline water, filtrd, μg/L (61620)	3,5-Di- chloro- aniline water, filtrd, μg/L (61625)	4-Chloro- 2methyl phenol water, filtrd, μg/L (61627)	Aceto- chlor, water, filtrd, μg/L (49260)	Ala- chlor, water, filtrd, μg/L (46342)	alpha- Endo- sulfan, water, filtrd, μg/L (34362)	Atra- zine, water, filtrd, μg/L (39632)	Azinophos- methoxon, water, filtrd, μg/L (61635)	Azinophos- methyl, water, filtrd, μg/L (82686)	Azinophos- methyl, water, filtrd, μg/L (82673)	Benzofuran, water, filtrd, μg/L (82680)		
Jul 09...	E.013	<.010	<.006	<.008	<.005	<.006	<.006	<.006	.015	<.04	<.120	<.010	<.060	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Carbo-furan, water, fltrd 0.7u GF	Chlor-pyrifos oxon, water, fltrd fltrd,	Chlor-pyrifos water, water, fltrd, fltrd,	cis-Per-methrin methrin water 0.7u GF	cis-Propi-conazole, water, water, fltrd, fltrd,	Cyana-zine, water, water, fltrd, fltrd,	Cyflu-thrin, water, water, fltrd, fltrd,	Iambda-thrin, water, water, fltrd, fltrd,	Cyperi-methrin water, water, fltrd, fltrd,	DCPA, water, fltrd 0.7u GF	Desulf-inyl-fipro-nil, water, fltrd, fltrd, fltrd,	Diazi-non, water, fltrd, fltrd, fltrd,	Dicrotophos, water, fltrd, fltrd, fltrd,
	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61595)	µg/L (61586)	µg/L (82682)	µg/L (62170)	µg/L (39572)	µg/L (38454)
Jul 09...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Diel-drin, water, fltrd 0.7u GF	Dimeth-oate, water, fltrd fltrd 0.7u GF	Disulf-ton sulfone water, fltrd fltrd 0.7u GF	Disulf-foton, water, fltrd fltrd 0.7u GF	Endo-sulfan sulfate water, fltrd fltrd 0.7u GF	EPTC, water, fltrd fltrd 0.7u GF	Ethion monoxon water, fltrd fltrd 0.7u GF	Ethion Ethion, water, fltrd fltrd 0.7u GF	Etho-prop, water, fltrd fltrd 0.7u GF	Fenami-phos sulfone water, fltrd fltrd 0.7u GF	Fenami-phos sulf-oxide, water, fltrd fltrd 0.7u GF	Fenami-phos, water, fltrd, fltrd 0.7u GF	Desulf-inyl-fipro-nil water, amide, wat flt µg/L (62169)
	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)	µg/L (61646)	µg/L (61591)	µg/L (62169)
Jul 09...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	<.20	<.03	<.029

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 8 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Fipro-nil sulfide water, fltrd, 0.7u GF	Fipro-nil sulfone water, fltrd, 0.7u GF	Fipro-nil water, fltrd, 0.7u GF	Fonofos water, fltrd, 0.7u GF	Hexa-zinone, water, fltrd, 0.7u GF	Ipro-dione, water, fltrd, 0.7u GF	Isofen-phos water, fltrd, 0.7u GF	Mala-oxon, water, fltrd, 0.7u GF	Mala-thion, water, fltrd, 0.7u GF	Metaxyl, water, fltrd, 0.7u GF	Methid-athion, water, fltrd, 0.7u GF	Methyl-paraoxon, water, fltrd, 0.7u GF	Methyl-parathion, water, fltrd, 0.7u GF
	µg/L (62167)	µg/L (62168)	µg/L (62166)	µg/L (04095)	µg/L (04025)	µg/L (61593)	µg/L (61594)	µg/L (61652)	µg/L (39532)	µg/L (61596)	µg/L (61598)	µg/L (61664)	µg/L (82667)
Jul 09...	<.013	<.024	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007	<.004	<.01	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 9 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Metola-chlor, water, fltrd, μg/L (39415)	Metri-buzin, water, fltrd, μg/L (82630)	Moli-nate, water, fltrd, 0.7u GF μg/L (82671)	Myclo-butanol, water, fltrd, μg/L (61599)	Oxy-fluor-fen, water, fltrd, 0.7u GF μg/L (61600)	Pendi-meth-alin, water, oxon, fltrd, μg/L (82683)	Phorate, water, fltrd, 0.7u GF μg/L (61666)	Phorate, water, fltrd, 0.7u GF μg/L (82664)	Phosmet, water, fltrd, μg/L (61668)	Phosmet, water, fltrd, μg/L (61601)	Prome-ton, water, fltrd, μg/L (04037)	Prome-tryn, water, fltrd, μg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF μg/L (82676)
Jul 09...	E.008	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.06	<.008	<.01	<.006	<.004

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 10 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Pro-panil, water, fltrd, 0.7u GF μg/L (82679)	Propar-gite, water, fltrd, 0.7u GF μg/L (82685)	Sima-zine, water, fltrd, 0.7u GF μg/L (04035)	Tebu-thiuron, water, fltrd, 0.7u GF μg/L (82670)	Teflu-thrin, water, fltrd, 0.7u GF μg/L (61606)	Ter-bufo-s bufos xon	Terbu-fos, water, fltrd, 0.7u GF μg/L (61674)	Ter-buthyl- fosc azine, water, fltrd, 0.7u GF μg/L (82675)	Thio-bencarb azole, water, fltrd, 0.7u GF μg/L (04022)	trans- Propi-cona zole, water, fltrd, 0.7u GF μg/L (82681)	Tribu-phos, water, fltrd, 0.7u GF μg/L (79847)	Tri-flur-alin, water, fltrd, 0.7u GF μg/L (61610)	1,1,1- trichloro- ethane, water, unfltrd μg/L (82661)
Jul 09...	<.006	<.04	<.006	<.02	<.003	<.04	<.02	<.01	<.010	<.02	<.035	<.009	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 11 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	CFC-113 water, unfltrd μg/L (77652)	1,1-Di-chloro- ethane, water, unfltrd μg/L (34496)	1,1-Di-chloro- ethene, water, unfltrd μg/L (34501)	1,2-Di-chloro- benzene water, unfltrd μg/L (34536)	1,2-Di-chloro- ethane, water, unfltrd μg/L (32103)	1,2-Di-chloro- propane water, unfltrd μg/L (34541)	1,3-Di-chloro- benzene water, unfltrd μg/L (34566)	1,4-Di-chloro- benzene water, unfltrd μg/L (34571)	Benzene water, unfltrd μg/L (34030)	Bromo-di-chloro- methane water, unfltrd μg/L (32101)	Tri-bromo- methane water, unfltrd μg/L (32104)	cis-Chloro- benzene water, unfltrd μg/L (34301)	1,2-Di- chloro- ethene, water, unfltrd μg/L (77093)
Jul 09...	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 12 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	Di-bromo-	Di-chloro-	Di-chloro-	Di-ethyl	Diisopropyl	Ethyl-benzene	tert-pentyl	meta-+ para-	o-Xylene,	Styrene	t-Butyl	Methyl	Tetra-
	chloro-methane water, unfltrd	chloro-fluoro-methane methane wat unf	chloro-methane water, unfltrd	ether, unfltrd	water, unfltrd	ethyl ether, unfltrd	chloro-ethene, water, unfltrd						
	µg/L (32105)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (34371)	µg/L (50005)	µg/L (85795)	µg/L (77135)	µg/L (77128)	µg/L (50004)	µg/L (78032)	µg/L (34475)
Jul 09...	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 13 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

Date	trans-1,2-Di-chloro-		Tri-chloro-fluoro-		Tri-chloro-methane		Vinyl chloride,	Di-chlorovos,	Alpha radioac	Alpha radioac	Beta radioac	Beta radioac
	Tetra-chloro-methane	Toluene	ethene, unfltrd	ethene, unfltrd	methane unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	30 day, Th-230,	72 hr, Th-230,	30 day, Cs-137,	72 hr, Cs-137,
	µg/L (32102)	µg/L (34010)	µg/L (34546)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	µg/L (38775)	pCi/L (62639)	pCi/L (62636)	pCi/L (62645)	pCi/L (62642)
Jul 09...	<.2	<.1	<.1	<.1	<.2	<.1	<.2	<.01	.7	R.1	1.1	R.6